



FLSIC



www.snt.navsup.navy.mil



***Ready. Resourceful.
Responsive!***

**MATT MULLINS
CDR, USN
4-5 MAR 2004**

- **Background/Overview**
- **AIT Implementation/Requirements**
- **Warranty Data**
 - **Today's Guidance**
 - **What's Available**
 - **What's Planned**
- **Capitalizing on UID**

Aviation Maintenance-Supply Readiness (AMSR) Review - 1998

Challenge:



Lower Maintenance & Supply Cost



Increase Readiness





Definition:

Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology (AIT)



Plan:

Collect data through interfaces with various supply and maintenance systems and provide access to stakeholders via a Virtual Shared Data Warehouse

Major Benefits

Maintenance

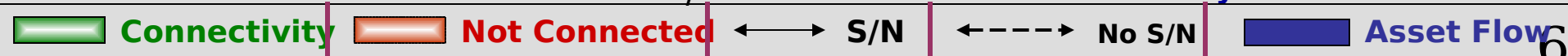
- Identify Maintenance Deficiencies
- Measure Reliability
- Accurate Record Configuration
- Determine Training Requirements
- Assist Engineering Investigations



Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Losses
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

Overview



SNT Foundation

Implementation

SNT requires
two
components

SNT

Data Base

Access
WMRIL/A-ORS
eRMS/WMPS
UICP
WEB-CAV
CAV-ORM
CAV-Navy
FACTS
OOMA/OIMA
R-Supply
IBS

AIT

CMB
2D Data
matrix
PDF417 2D
ISO15418/15
434
MIL-STD-129
MIL-STD-130
MSL
IRRD

FIRST

Live
access
to
databases
via the
SNT Web-
enabled
portal.

SECOND

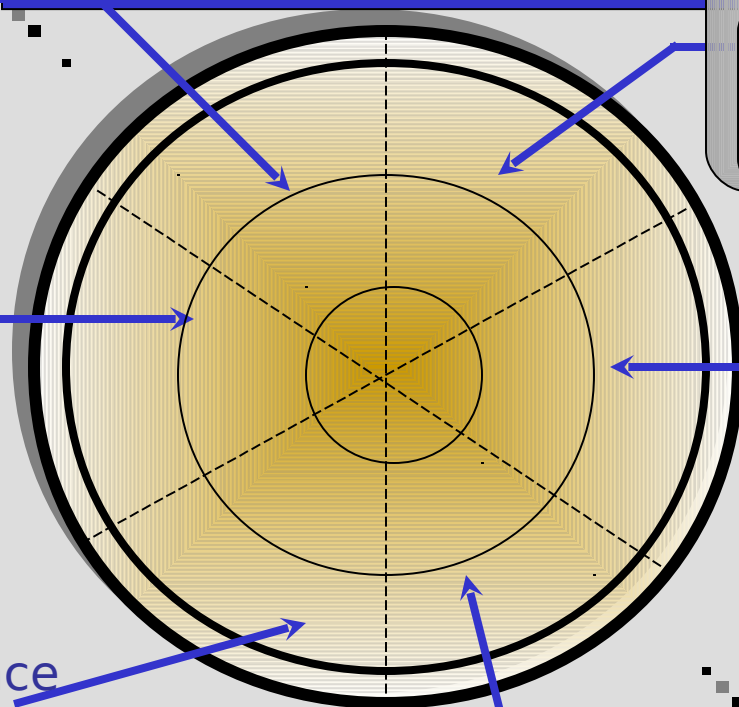
Automatic
Identification
Technology
(AIT) is used
by SNT to
maintain data
accuracy.

**Scheduled
Removal
Component
Card**

**Maintenance
History****

**Use TBD within
aviation maintenance

Contact Memory Button (CMB)



Name Plate Data

Computer, Air Data CPU-175/A

P/N 50-100-01

SERNO 0152

MFR K0656 CONTR F33657-85C-0025

**Warranty
Data**

CMB Stats:

- 2k,8k,32k
- ~\$7-\$13 each
- Read/Write
- Dual CMB/BC Reader \$1200

**Available for Vendor
Use**

**Available for Future Navy
Use**

Supply - Aviation 5 Year CMB Plan

**AIT -Aviation
Rollout**

**Total # of
Items marked
1,267,091**

**SNT Implementation
Cost = \$58,211,346**

T/W/S	Total Number Aircraft	Components per Aircraft	Total Number of Components (W/ 25% spares)	Total CMB Cost	Contractor Installation Cost	Total Engineering Document Cost	Total AIT Cost
MH-53E	46	170	9,775	\$152,783.25	\$272,412.00	\$136,000.00	\$605,932.55
CH-53E	164	170	34,850	\$544,705.50	\$817,236.00	\$136,000.00	\$1,597,820.10
CH-53D	44	104	5,720	\$89,403.60	\$272,412.00	\$83,200.00	\$486,995.50
UH-60	342	300	128,250	\$2,004,547.50	\$3,268,944.00	\$240,000.00	\$5,665,423.90
UH-60A	11	400	55,500	\$867,465.00	\$708,271.00	\$320,000.00	\$1,712,510.96
UH-60A	5	469	9,380	\$146,609.40	\$163,447.20	\$375,200.00	\$1,712,510.96
UH-60A	194	196	47,530	\$742,893.90	\$898,959.60	\$156,800.00	\$1,757,972.56
UH-60A	126	132	20,790	\$324,947.70	\$599,306.40	\$105,600.00	\$1,030,854.10
UH-60A	80	70	20,125	\$314,553.75	\$926,200.80	\$56,000.00	\$1,383,946.57
UH-60A	46	70	6,913	\$108,042.38	\$435,859.26	\$56,000.00	\$609,546.56
EA-6B	124	144	22,320	\$348,861.60	\$1,035,165.60	\$115,200.00	\$1,659,147.94
MCV/HV-2	458	203	116,218	\$1,816,479.53	\$3,922,732.80	\$162,400.00	\$6,254,890.39
AV-8	172	921	198,015	\$3,094,974.45	\$871,718.40	\$736,800.00	\$4,899,087.53
F-14A/B/D	193	200	48,250	\$754,147.50	\$871,718.40	\$160,000.00	\$1,940,564.86
P-3's	264	75	24,750	\$386,842.50	\$1,797,919.20	\$60,000.00	\$2,452,987.68
Cargo	295	175	64,531	\$1,008,623.44	\$2,724,120.00	\$140,000.00	\$4,297,527.69
Trainers	515	129	83,044	\$1,297,973.81	\$817,236.00	\$103,200.00	\$2,399,150.46
E-2C	75	147	13,594	\$212,470.31	\$1,525,507.20	\$116,000.00	\$1,963,874.10
C-2A	38	145	6,888	\$107,651.63	\$217,929.60	\$116,000.00	\$461,500.85
F-18ABCD	745	200	186,250	\$2,911,087.50	\$4,794,451.20	\$160,000.00	\$8,327,383.34
F-18EF	548	240	164,400	\$2,569,572.00	\$2,179,296.00	\$192,000.00	\$5,246,021.20
Misc Support							\$2,805,000.00
Total			1,267,091	\$19,804,636.24	\$29,120,842.80	\$3,726,400.00	\$58,211,345.83

Invoices

**MIL-STD-129 PDF417
2D
ISO 15418 / 15434**

Product Marketing



Nameplate Data



CMB

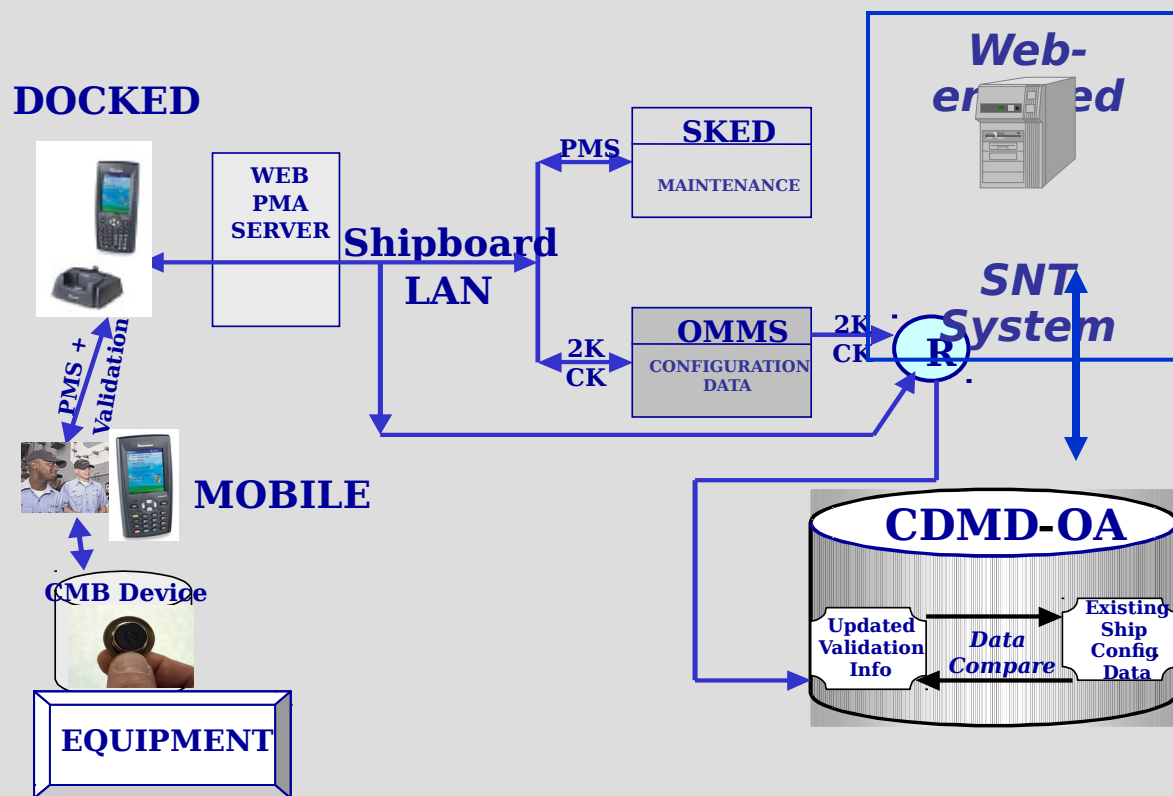
CAGE: 23456
PN: 33489-12
NSN: 5835-01-141-5888
S/N: 45367
Cont: N00383-02-G010N-0017
Name: Main Rotor Blade

2D Data Matrix

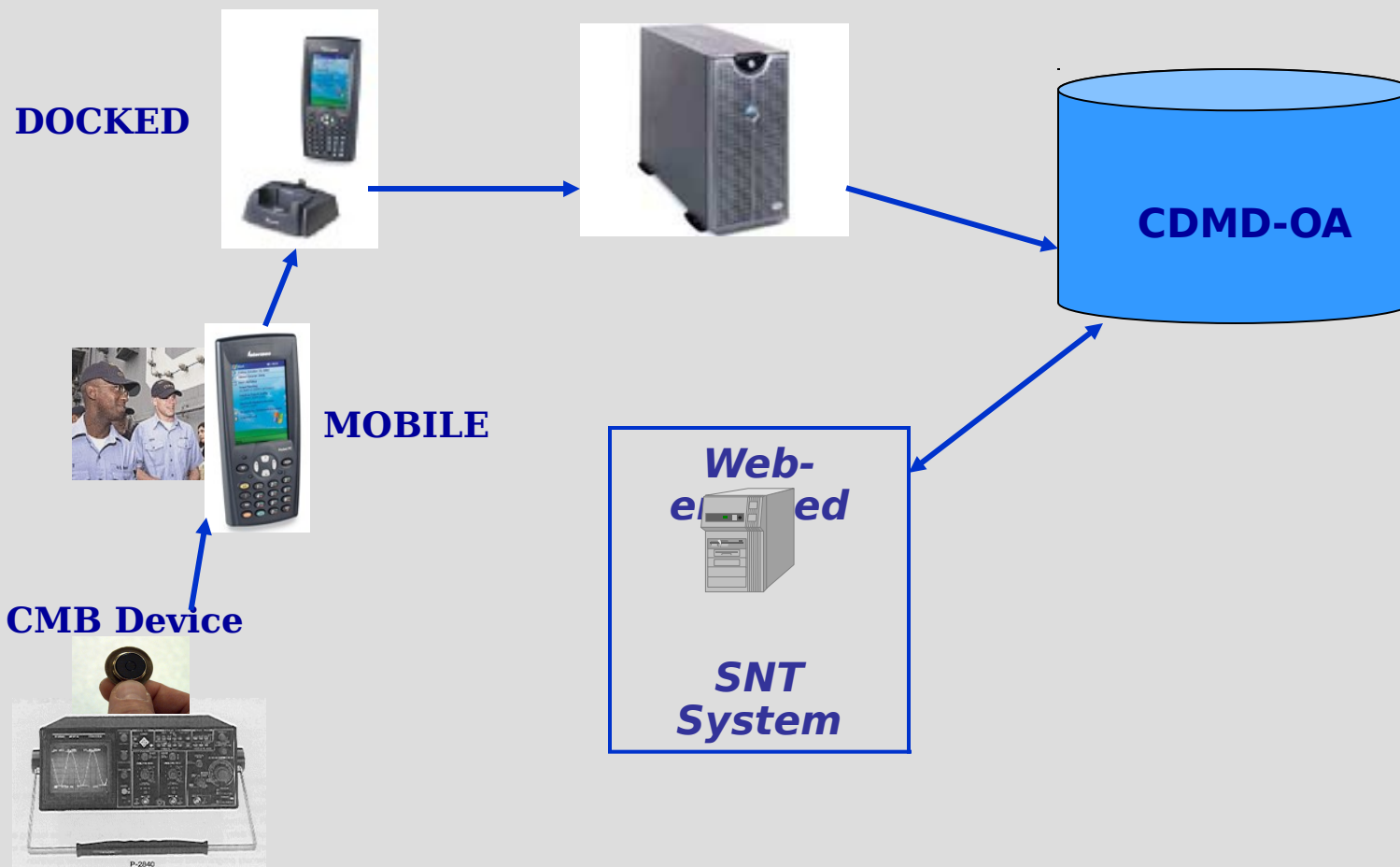
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
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3/9 and 2D Barcode

Configuration Mgt Effort (Notional)



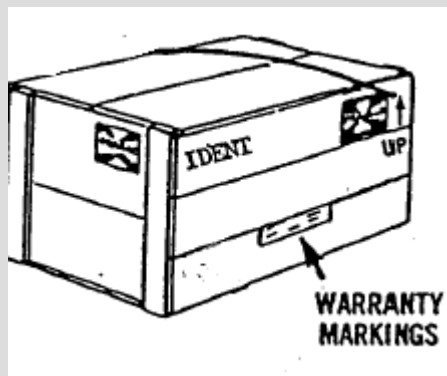
Calibration (Notional)



Warranty Markings

Warranty Today

MIL-STD-129P CH2



**WARRANTED ITEM
WARRANTY EXPIRES
AFTER 1000 HOURS
OF OPERATION**

**WARRANTED ITEM
WARRANTY EXPIRES
1 JANUARY 2003**

MIL-STD 130L



**WARRANTED ITEM
THIS ITEM IS UNDER WARRANTY
UNTIL _____ (NOTE 1) _____**
NOTE 3

**WARRANTED ITEM
THIS ITEM IS UNDER WARRANTY
UNTIL _____ (NOTE 2) _____
HAS BEEN COMPLETED**
NOTE 3

Note 1 - Indicates expiration Date

Note 2 - Indicates of use (Hours of Ops)

Note 3 - Examples provided as Guide (Not

WEB-CAV Warranty Information

Warranty info

CAV v5.0 - Add Warranty Serial Nr - Microsoft Internet Explorer

Address: http://caveastrain.navista.navy.mil/cavweb/contnrv/mvo_warranty_pt/ut_form_add

DAN'S FIX-IT SHOPPER(W22999) NAVICP-M(N00104)

Add Warranty Serial Nr

Add Successful!

Part Number	CAGE	Serial Number
ZXCVBNM	12345	A1-B2-C3-D4

Serial Nr: * Model Nr: Lot Nr:

Contract Nr: Omd's NFF: Actual NFF:

NFF: Omd's MTBR: Actual MTBR:

Omd's Cycle Time: Delivery Dt: Manufacture Dt:

Warranty Start Dt: Warranty Stop Dt: Award Dt:

Remarks:

[Change Part Numbers](#) [Warranty Menu](#) [Contact Us](#) [Help](#)

CAV v5.0 - Update Warranty Serial Nr - Microsoft Internet Explorer

Address: http://caveastrain.navista.navy.mil/cavweb/contnrv/mvo_warranty_pt/ut_form_update

DAN'S FIX-IT SHOPPER(W22999) NAVICP-M(N00104)

Update Warranty Serial Nr

Part Nr: ZXCVBNM CAGE: 12345

Serial Nr: * Model Nr: Lot Nr:

Contract Nr: Omd's NFF: Actual NFF:

NFF: Omd's MTBR: Actual MTBR:

Omd's Cycle Time: Delivery Dt: Manufacture Dt:

Warranty Start Dt: Warranty Stop Dt: Award Dt:

Remarks:

[Warranty Menu](#) [Contact Us](#) [Help](#)

CAV Report - Warranty Report - Microsoft Internet Explorer

Address: http://caveastrain.navista.navy.mil/cavweb/contnrv/mvo_warranty_pt/ut_report_pt_res?

Items Listed Are All Warranty Entries

Actual Pages Shown: [Filter Criteria](#) [Warranty Menu](#) [Main Menu](#)

WARRANTY REPORT **FEBRUARY 18,**

Part Number:	Item Homelocation:	FSC:
ZXCVBNM	HAMMER	1234
Vendor Name:	CAGE:	NIN:
JONES TOOLS	12345	002344758
Serial Number Warranty Information	SMC:	
	SM	

Serial Number:	Contract Number:	Model Number:	Lot Number:	Guaranteed MTBR:	Actual MTBR:	Guaranteed NFF:	Actual NFF:	Remarks:
A1-B2-C3-D4	N00104C04000011	MDL-747	4067A	365	540	4100	4150	

Manufacture Dt:	Delivery Dt:	Warranty Start Dt:	Warranty Stop Dt:	Award Dt:	Expiration Dt:	Guaranteed Cycle Time:	Actual Cycle Time:
11/15/2003	02/19/2004	03/01/2004	02/28/2005	01/15/2004	01/15/2020	7	7

This report may be sorted in the following order:

First: Second: Third:

This report may be filtered where:

Column: Operator: Value:

CAV v5.0 - Receive Update - Microsoft Internet Explorer

Address: http://caveastrain.navista.navy.mil/cavweb/contnrv/mvo_receive/ut_update

DAN'S FIX-IT SHOPPER(W22999) NAVICP-M(N00104)

Receive Update

Receipt Successful. Don't click the Back button. To continue, click a link below...

[Receipt Menu](#) - to report another Receipt

[Item Maintenance](#) - to update a Reference/Serial Nr

You received 3 item(s):

	RCDN	Reference Nr	Serial Nr
1.	W2299940499910		A-B-C-D
2.	W2299940499911		A1-B2-C3-D4 **
3.	W2299940499912		1-2-3-4

** - Indicates Warranty match on NIN and Serial Number

[Main Menu](#) [Contact Us](#) [Help](#)

SNT HomePage - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print Copy Paste W Word

Address <http://www.snt.navsup.navy.mil/default.shtml> Go Links >>



Beginning 01 APRIL 2004, all users of the SNT web site must possess a valid DOD PKI Certificate. More information is available by opening the Documents or What's New links on the left side of the SNT homepage.

Welcome to the US Navy Serial Number Tracking System

- SNTS LOGIN
- Documents
- Registration
- Other Links
- Contact Us
- Calendar
- What's New
- FAQ
- Home

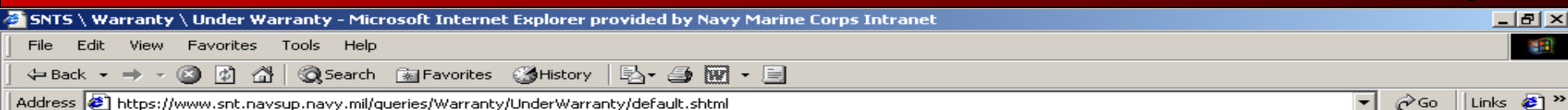
READ THIS:
DoD Security Notice

This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.

This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.

The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and FMSO.

This site has had **28024** hits.



Warranty Information

[Queries](#) |
 [Decision Support](#) |
 [Administration](#) |
 [User Options](#) |
 [Help](#) |
 [Feedback](#) |
 [Log Out](#)
[Asset Visibility](#) |
 [Aviation Maintenance](#) |
 [In Transit](#) |
 [Inventory](#) |
 [Shipboard Engineering](#) |
 [Warranty](#)

Search Criteria

CAGE Code:

Serial Number:

Part Number:

NIIN:

Contract Number:

[<< Back to Warranty](#)
[Submit a Batch Query](#)

Results

Warranty Information

Sort:

[Export to Microsoft® Excel®](#)
[Printer Friendly Version](#)

	Serial Number	Part Number	NIIN	Contract Number	CAGE Code	CAGE Name
1	101	096-0100		N0010400D G001	99488	LISSNER JAY G
2	102	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
3	103	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
4	104	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
5	105	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
6	106	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
7	107	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
8	108	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
9	109	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
10	110	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
	Serial Number	Part Number	NIIN	Contract Number	CAGE Code	CAGE Name
11	111	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
12	112	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
13	113	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G
14	114	096-0100-01	014685544	N0010400D G001	99488	LISSNER JAY G



Warranty



Warranty Info

SNTS \ Warranty \ Under Warranty - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

File Edit View Favorites Tools Help

Address <https://www.snt.navsup.navy.mil/queries/Warranty/UnderWarranty/default.shtml> Go Links

Warranty Information

[Queries](#) | [Decision Support](#) | [Administration](#) | [User Options](#) | [Help](#) | [Feedback](#) | [Log Out](#)
[Asset Visibility](#) | [Aviation Maintenance](#) | [In Transit](#) | [Inventory](#) | [Shipboard Engineering](#) | [Warranty](#)

Search Criteria

CAGE Code:

Serial Number:

Part Number:

NIIN:

Contract Number:

[<< Back to Warranty](#)
[Submit a Batch Query](#)

Results

[Warranty Information](#) > [Warranty Contract Detail](#)

Sort:

[Export to Microsoft® Excel®](#)
[Printer Friendly Version](#)

	Contract Officer	Warranty Start Date	Warranty Stop Date	Guaranteed MTBR	Guaranteed NFF	Guaranteed Cycle Time
1		02 Oct 2000	02 Jan 2002			

Records 1 - 1 of 1 Total Records.

Page: 1

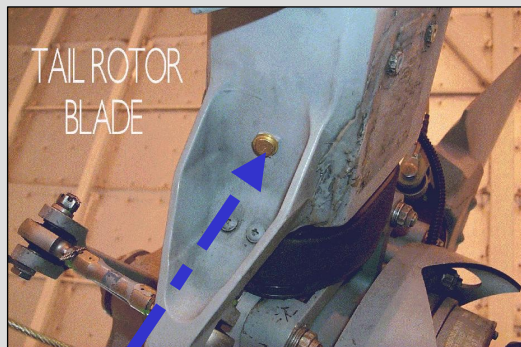
Done Internet

Start FLSIC FEB 2004 SNTS \ Warranty \ Un...

13:38

AIT Maintenance Data Collection(OOMA)

What's Planned



Button
Readers

DownLoaders/Rechargers



Information System
OOMA

NALCOMIS OMA

File Window Help

Active Work Order Summary

Work Order Update - Installed

ORG: WA7

BUNO/Serno: 163086

MCN: 000064X

WUC/AINS: 15A7492

Mal Cdt: 811

Pos Cdt: 09

Buno/Serno: 163086

Parent Assy: 15A7400 [MAIN ROTOR HEAD HUB ASSEMBLY]

Install Item: 15A7492 [BLADE LOCK PIN - CW]

INSTALLED

Cage: 8286

Part Number: 65664-11150-043

Serno: SL01624

Date Installed: 30 APR 2002

CDI Signature:

OK Cancel Apply

Sort By

Future Capability within OOMA

Inventory [PUMP, BIDIRECTIONAL POWER TRANSFER REVERSIBLE]

Details Usage Warranty Note

Manufactured Date: 00 0000

Expiration Date: 00 0000

Note:

OK Cancel Apply Help

DoD Policy/Directives:

Mar 98 - Super Reg - Unique Item Identification (UII)

Sep 02 - SIM Initiative - CAGE, P/N, S/N

Jul 03 - USD - A,T & L Letter - Marking UID of Tangible Items Dated 7/29/03

Oct 03 - USD - A,T & L Letter - RFID Dated - 10/02/03

Nov 03 - DoD Guide to UID Items - EIN, P/N, S/N

Nov 03 - Update of Policy UID Transactions Dated - 11/26/03

Dec 03 - Migration to DLMS Dated - 12/22/03

Dec 03 - Revision to UID Policy Dated - 12/22/03

Common Link:

ANSI MH10 Data Syntax and Semantics **17V**-EIN, **S**-S/N, **1P**-P/N

[>^R_S06^G_S**17V**35421^G_S**S**10936^G_S**1P**420Y2435^E_O_T



Maintenance

	<p>Cage: 02059 PN:102770-351 Ser: 6694 NSN 7025011415888 CONT: N00104-98-T-0023 Name: Magnetic Tape U/I: EA QTY: 1</p>
<p>MIL-STD 129M PDF417 2D ANSI MH 10</p>	

Supply / Transportation

Future Part Marking Requirement- Warranty

Navy
Discretion



DoD
Mandate

TODAY'S DoD UID REQUIREMENT

ANSI MH10 Data Syntax and Semantics **17V**-EIN, **S**-
S/N, **1P**-P/N

[I]>^R.06^G.**17V**35421^G.**S**10936^G.**1P**420Y2435^Eo.

DoD UID REQUIREMENT WITH WARRANTY

ANSI MH10 Data Syntax and Semantics - **6D**- Warranty

[I]>^R_s.06^G_s.**17V**35421^G_s.**S**10936^G_s.**1P**420Y2435^G_s
6D20040415090^G_s.**6D**20060414091^Eo_T

Warranty Start Date
Date = 4/15/2004
Start = 090

Warranty Stop Date
Date = 4/14/2006
Start = 091